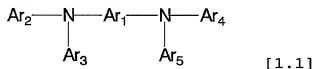


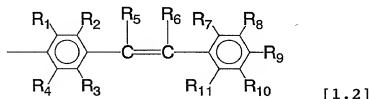
What is claimed is:

1. An organic electroluminescent device comprising one or more organic thin film layer(s) placed between an anode and a cathode, at least one of said layer being a luminescent layer,

- 5 characterized in that said luminescent layer comprises a compound expressed in the following general formula [1.1] in the form of a single substance or a mixture containing the same.



- 10 (wherein, Ar<sub>1</sub> represents a substituted or unsubstituted arylene group having 5 to 42 carbon atoms; at least one of Ar<sub>2</sub> to Ar<sub>5</sub> independently represents a group expressed in the following general formula [1.2]; the remaining group(s) of Ar<sub>2</sub> to Ar<sub>5</sub> independently represents an aryl
- 15 group having 6 to 20 carbon atoms; and at least one of Ar<sub>2</sub> to Ar<sub>5</sub> comprises at least one hydrocarbon group which may include oxygen atom(s). Ar<sub>2</sub> and Ar<sub>3</sub> and/or Ar<sub>4</sub> and Ar<sub>5</sub> may mutually bond to form a ring.)

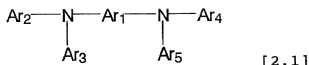


- 20 (wherein, each of R<sub>1</sub> to R<sub>11</sub> independently represents a

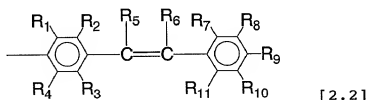
hydrogen atom, halogen atom, hydroxyl group,  
substituted or unsubstituted amino group, cyano group,  
nitro group, substituted or unsubstituted alkyl group,  
substituted or unsubstituted alkenyl group, substituted  
25 or unsubstituted cycloalkyl group, substituted or  
unsubstituted alkoxy group, substituted or  
unsubstituted aromatic hydrocarbon group, substituted  
or unsubstituted aromatic heterocyclic group,  
substituted or unsubstituted aralkyl group, substituted  
30 or unsubstituted aryloxy group, substituted or  
unsubstituted alkoxy carbonyl group, or carbonyl group.  
(Two of  $R_1$  to  $R_{11}$  may form a ring.)

2. The organic electroluminescent device  
according to Claim 1 wherein  $R_6$  is said hydrocarbon  
group.

3. An organic electroluminescent device  
comprising one or more organic thin film layer(s)  
placed between an anode and a cathode, at least one of  
said layer being a luminescent layer,  
5 characterized in that said luminescent layer  
comprises a compound expressed in the following general  
formula [2.1] in the form of a single substance or a  
mixture containing the same.



- 10 (wherein, Ar<sub>1</sub> represents a substituted or unsubstituted arylene group having 5 to 42 carbon atoms; at least one of Ar<sub>2</sub> to Ar<sub>5</sub> independently represents a group expressed in the following general formula [2.2]; the remaining group(s) of Ar<sub>2</sub> to Ar<sub>5</sub> independently represents an aryl
- 15 group having 6 to 20 carbon atoms; and at least one of Ar<sub>2</sub> to Ar<sub>5</sub> comprises at least one saturated hydrocarbon group having 2 or more carbon atoms in which oxygen atom(s) may be inserted. Ar<sub>2</sub> and Ar<sub>3</sub> and/or Ar<sub>4</sub> and Ar<sub>5</sub> may mutually bond to form a ring.)



- 20 (wherein, each of R<sub>1</sub> to R<sub>11</sub> independently represents a hydrogen atom, halogen atom, hydroxyl group, substituted or unsubstituted amino group, cyano group, nitro group, substituted or unsubstituted alkyl group,
- 25 substituted or unsubstituted alkenyl group, substituted or unsubstituted cycloalkyl group, substituted or unsubstituted alkoxy group, substituted or unsubstituted aromatic hydrocarbon group, substituted or unsubstituted aromatic heterocyclic group,
- 30 substituted or unsubstituted aralkyl group, substituted

or unsubstituted aryloxy group, substituted or unsubstituted alkoxy carbonyl group, or carbonyl group. Two of  $R_1$  to  $R_{11}$  may form a ring.)

4. The organic electroluminescent device according to Claim 3 wherein said saturated hydrocarbon group is a group bonded to an aryl group other than a group expressed in the general formula [2.2].

5. The organic electroluminescent device according to Claim 4 wherein said saturated hydrocarbon group is bonded to at least one of carbon atom directly bonded to a carbon atom bonded to a nitrogen atom, in said aryl group.

6. The organic electroluminescent device according to Claim 4 wherein  $Ar_2$  and  $Ar_4$  are an aryl group comprising said saturated hydrocarbon group.

7. The organic electroluminescent device according to Claim 3 wherein said saturated hydrocarbon group is at least one of  $R_1$  to  $R_{11}$ .

8. The organic electroluminescent device according to Claim 7 wherein  $R_1$  and/or  $R_4$  is said saturated hydrocarbon group.

9. The organic electroluminescent device according to Claim 7 wherein  $Ar_3$  and  $Ar_5$  are a group expressed in the general formula [2.2] comprising said saturated hydrocarbon group.

10. The organic electroluminescent device according to Claim 3 wherein the device has at least a hole transporting layer, and the hole transporting layer contains a compound expressed in the general  
5 formula [2.1] in the form of a single substance or a mixture containing the same.

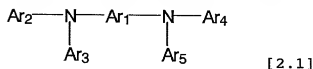
11. The organic electroluminescent device according to Claim 3 wherein the device has at least an electron transporting layer, and the electron transporting layer contains a compound expressed in the  
5 general formula [2.1] in the form of a single substance or a mixture containing the same.

12. The organic electroluminescent device according to Claim 3 wherein said luminescent layer is adjacent to said anode.

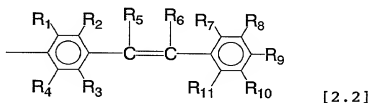
13. An organic electroluminescent device comprising at least an anode, a luminescent zone and a

cathode, the luminescent zone being formed from one or more organic thin film layer(s),

- 5 characterized in that said luminescent zone is adjacent to the anode, and a layer adjacent to the anode of the organic thin film layer(s) forming the luminescent zone contains a compound expressed in the following general formula [2.1] in the form of a single  
10 substance or a mixture containing the same.



- (wherein, Ar<sub>1</sub> represents a substituted or unsubstituted arylene group having 5 to 42 carbon atoms; at least one of Ar<sub>2</sub> to Ar<sub>5</sub>, independently represents a group expressed  
15 in the following general formula [2.2]; the remaining group(s) of Ar<sub>2</sub> to Ar<sub>5</sub>, independently represents an aryl group having 6 to 20 carbon atoms; and at least one of Ar<sub>2</sub> to Ar<sub>5</sub> comprises at least one saturated hydrocarbon group having 2 or more carbon atoms in which oxygen  
20 atom(s) may be inserted. Ar<sub>2</sub> and Ar<sub>3</sub> and/or Ar<sub>4</sub> and Ar<sub>5</sub> may mutually bond to form a ring.)

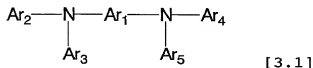


(wherein, each of R<sub>1</sub> to R<sub>11</sub> independently represents a hydrogen atom, halogen atom, hydroxyl group,

- 25 substituted or unsubstituted amino group, cyano group,  
nitro group, substituted or unsubstituted alkyl group,  
substituted or unsubstituted alkenyl group, substituted  
or unsubstituted cycloalkyl group, substituted or  
unsubstituted alkoxy group, substituted or  
30 unsubstituted aromatic hydrocarbon group, substituted  
or unsubstituted aromatic heterocyclic group,  
substituted or unsubstituted aralkyl group, substituted  
or unsubstituted aryloxy group, substituted or  
unsubstituted alkoxycarbonyl group, or carbonyl group.  
35 Two of  $R_1$  to  $R_{11}$  may form a ring.)

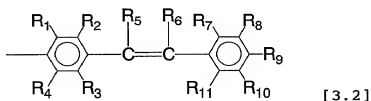
14. An organic electroluminescent device  
comprising one or more organic thin film layer(s)  
placed between an anode and a cathode, at least one of  
said layer being a luminescent layer,

- 5 characterized in that said luminescent layer  
comprises a compound expressed in the following general  
formula [3.1] in the form of a single substance or a  
mixture containing the same.



- 10 (wherein,  $\text{Ar}_1$  represents a substituted or unsubstituted  
arylene group having 5 to 42 carbon atoms; each of  $\text{Ar}_2$   
and  $\text{Ar}_3$  independently represents a group expressed in

the following general formula [3.2]; and each of Ar<sub>4</sub> and Ar<sub>5</sub> independently represents substituted or unsubstituted aryl group having 6 to 20 carbon atoms. Ar<sub>2</sub> and Ar<sub>3</sub> and/or Ar<sub>4</sub> and Ar<sub>5</sub> may mutually bond to form a ring.)



(wherein, each of R<sub>1</sub> to R<sub>11</sub> independently represents a hydrogen atom, halogen atom, hydroxyl group, substituted or unsubstituted amino group, cyano group, nitro group, substituted or unsubstituted alkyl group, substituted or unsubstituted alkenyl group, substituted or unsubstituted cycloalkyl group, substituted or unsubstituted alkoxy group, substituted or unsubstituted aromatic hydrocarbon group, substituted or unsubstituted aromatic heterocyclic group, substituted or unsubstituted aralkyl group, substituted or unsubstituted aryloxy group, substituted or unsubstituted alkoxycarbonyl group, or carbonyl group; and R<sub>6</sub> is a substituent other than a hydrogen atom. Two of R<sub>1</sub> to R<sub>11</sub> may form a ring.)

15. The organic electroluminescent device according to Claim 14 wherein each of Ar<sub>4</sub> and Ar<sub>5</sub>



independently represents a group expressed in the general formula [3.2].

16. The organic electroluminescent device according to Claim 14 wherein  $R_6$  is an aryl group having 6 to 20 carbon atoms.

17. The organic electroluminescent device according to Claim 14 wherein  $R_6$  is a substituted or unsubstituted alkyl group, or substituted or unsubstituted cycloalkyl group.

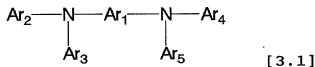
18. The organic electroluminescent device according to Claim 14 wherein the device has at least a hole transporting layer, and the hole transporting layer contains a compound expressed in the general formula [3.1] in the form of a single substance or a mixture containing the same.

19. The organic electroluminescent device according to Claim 14 wherein the device has at least an electron transporting layer, and the electron transporting layer contains a compound expressed in the general formula [3.1] in the form of a single substance or a mixture containing the same.

20. The organic electroluminescent device according to Claim 14 wherein said luminescent layer is adjacent to said anode.

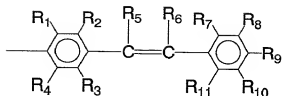
21. An organic electroluminescent device comprising at least an anode, a luminescent zone and a cathode, the luminescent zone being formed from one or more organic thin film layer(s),

5 characterized in that said luminescent zone is adjacent to the anode, and a layer adjacent to the anode of the organic thin film layer(s) forming the luminescent zone contains a compound expressed in the following general formula [3.1] in the form of a single  
10 substance or a mixture containing the same.



(wherein, Ar<sub>1</sub> represents a substituted or unsubstituted arylene group having 5 to 42 carbon atoms; each of Ar<sub>2</sub> and Ar<sub>3</sub> independently represents a group expressed in  
15 the following general formula [3.2]; and each of Ar<sub>4</sub> and Ar<sub>5</sub> independently represents substituted or unsubstituted aryl group having 6 to 20 carbon atoms. Ar<sub>2</sub> and Ar<sub>3</sub> and/or Ar<sub>4</sub> and Ar<sub>5</sub> may mutually bond to form a ring.)

20



[3.2]

- (wherein, each of  $R_1$  to  $R_{11}$  independently represents a hydrogen atom, halogen atom, hydroxyl group, substituted or unsubstituted amino group, cyano group, nitro group, substituted or unsubstituted alkyl group, substituted or unsubstituted alkenyl group, substituted or unsubstituted cycloalkyl group, substituted or unsubstituted alkoxy group, substituted or unsubstituted aromatic hydrocarbon group, substituted or unsubstituted aromatic heterocyclic group, substituted or unsubstituted aralkyl group, substituted or unsubstituted aryloxy group, substituted or unsubstituted alkoxycarbonyl group, or carbonyl group; and  $R_6$  is a substituent other than a hydrogen atom. Two of  $R_1$  to  $R_{11}$  may form a ring.)